

### Industrial Engineering Sample Curriculum Schedule -- Class 2021

	SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
Freshman	107032030		思想道德修养与法律基础	Ideological and Moral Cultivation and Legal Basis	Chinese	48	3	Fall	
	888004010		体育-1	Physical Education-1	Chinese	32	1	Fall	
	312068010	ENGR 0081	新生研讨会及形势与政策 1	Freshmen Seminar 1	Bilingual	16	1	Fall	
	312002030	ENGCOMP 0152	高级英文写作研习	English Composition	English	48	3	Fall/Spring	
	312082030	LING 0007/ENGCOMP 0150	英语中级写作	English Writing Intermediate	English	48	3	Fall	
	312090010	ENGCOMP 0152A /LING 0007A	写作中心辅导	Writing Center Tutorial	English	16	1	Fall	
	312004040	MATH 0220	解析几何与微积分 1	Analytic Geometry and Calculus 1	English	64	4	Fall	
	312080080	MATH 0235	解析几何与微积分 2	Analytic Geometry and Calculus 2	English	128	8	Fall/Spring	
	312010030	CHEM 0960	工科化学 1	General Chemistry for Engineers 1	English	48	3	Fall	
	312012030	ENGR 0011	工程分析	Introduction to Engineering Analysis	English	48	3	Fall	
	107060030		中国近代史纲要	The Outline of Chinese Modern History	Chinese	48	3	Spring	
	900001010		军事理论	Military Theory	Chinese	16	1	Spring	
	900005020		军事技能	Military Training	Chinese	112	2	Spring	
	888005010		体育-2	Physical Education-2	Chinese	32	1	Spring	
	999005030/6030/9030/8030		中华文化 (历史篇/文学篇/哲学篇/艺术篇)	Chinese Culture	Chinese	48	3	Fall/Spring	
	908049020		工科化学实验	Chemical Experiment	Chinese	32	2	Spring	
	312069010	ENGR 0082	新生研讨会及形势与政策 2	Freshmen Seminar 2	Bilingual	16	1	Spring	*ENGR 0081
	312111010	ENGCOMP 0140	英语听力与口语训练	Speaking and Listening	English	16	1	Spring	
	312085030	ENGCOMP 0200	专业英语写作	Seminar in Composition	English	48	3	Fall/Spring	ENGCOMP 0152
	312005040	MATH 0230	解析几何与微积分 2	Analytic Geometry and Calculus 2	English	64	4	Spring	*MATH 0220
	312079040	MATH 0240	解析几何与微积分 3	Analytic Geometry and Calculus 3	English	64	4	Fall/Spring	*MATH 0230/0235
	312008040	PHYS 0174	基础物理 1-理工	Physics for Science and Engineering 1	English	64	4	Fall/Spring	
	312011030	CHEM 0970	工科化学 2	General Chemistry for Engineers 2	English	48	3	Spring	*CHEM 0960
312013030	ENGR 0012	计算机工程学	Engineering Computing	English	48	3	Spring	*ENGR 0011	
<b>Total</b>						<b>976/1088</b>	<b>54/57</b>		
<b>Note:</b> 1. MATH 220+230 = MATH 235, students either take both 220 and 230, or just take one 235; 2. Students who are placed in MATH 220 will take PHYS 0174 simultaneously in the Fall semester. The rest of students will take PHYS0174 in the Spring semester; 3. Some students will be placed in an extra LING 0007/ENGCOMP 0150.									
Sophomore	107021030		马克思主义基本原理概论	The Basic Principles of Marxism	Chinese	48	3	Fall	
	888006010		体育-3	Physical Education-3	Chinese	32	1	Fall	
	312070000	IE 1085	院系研讨会及形势与政策 3	Department Seminar 3	Bilingual	16	0	Fall	
	312006030	MATH 0280	矩阵与线性代数导论	Matrices and Linear Algebra	English	48	3	Fall/Spring	*MATH 0230/0235
	312009040	PHYS 0175	基础物理 2-理工	Physics for Science and Engineering 2	English	64	4	Fall/Spring	*PHYS 0174
	312014030	ENGR 0022	材料结构与性能	Materials Structures and Properties	English	48	3	Fall/Spring	*MATH 0230/0235, *PHYS 0174,*CHEM 0960
	312022030	IE 1054	生产力分析	Productivity Analysis	English	48	3	Fall	
	312141030	IE 1070	概率、随机变量与分布	Probability, Random Variables, and Distributions	English	48	3	Fall	*MATH 0230/0235
				H/SS Elective 1	English	48	3	Fall	
	107446030		毛泽东思想和中国特色社会主义理论体系概论	The Introduction to Mao Zedong Thought and the Theory of Socialism with Chinese Characteristics	Chinese	48	3	Spring	
	107447030		习近平新时代中国特色社会主义思想概论	An Introduction to Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era	Chinese	48	3	Spring	
	888007010		体育-4	Physical Education-4	Chinese	32	1	Spring	

312071000	IE 1085	院系研讨会及形势与政策 4	Department Seminar 4	Bilingual	16	0	Spring	
312007030	MATH 0290	微分方程	Differential Equations	English	48	3	Fall/Spring	*MATH 0230/0235
202489020	PHYS 0219	工科物理实验	Basic Laboratory Physics for Science and Engineering	English	32	2	Spring	*PHYS 0174
312015030	ENGR 0135	静力学与材料力学 1	Statics and Mechanics of Materials 1	English	48	3	Fall/Spring	*MATH 0235/230, PHYS 0174
312142030	MEMS 0031	电路学	Electric Circuits	English	48	3	Fall/Spring	*PHYS 0175
312017030	IE 0015	信息系统工程导论	Introduction to Information Systems Engineering	English	48	3	Spring	*ENGR 0012
312021030	IE 1052	制造工艺与分析	Manufacturing Processes and Analysis	English	48	3	Fall/Spring	*ENGR 0022
312024030	IE 1061	人因工程学	Human Factors Engineering	English	48	3	Spring	
312027030	IE 1071	统计测试与回归	Statistical Testing and Regression	English	48	3	Spring	IE 1070
			H/SS Elective 2	English	48	3	Spring	
<b>Total</b>					<b>912</b>	<b>53</b>		

Note:  
Students need to take at least one of ENGR 0135 and MEMS 0031

SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312072000	IE 1085	院系研讨会及形势与政策 5	Department Seminar 5	Bilingual	16	0	Fall	
312018030	IE 1035	工程管理	Engineering Management	English	48	3	Fall	
312019030	IE 1040	工程经济学分析	Engineering Economic Analysis	English	48	3	Fall	
312028030	IE 1081	运筹学	Operations Research	English	48	3	Fall	*MATH 280
			H/SS Elective 3	English	48	3	Fall	
			Technical Elective 1	English	48	3	Fall	
			Technical Elective 2	English	48	3	Fall	
312073000	IE 1085	院系研讨会及形势与政策 6	Department Seminar 6	Bilingual	16	0	Spring	
312023030	IE 1055	设施布局与材料处理	Facility Layout and Material Handling	English	48	3	Spring	
312029030	IE 1082	概率方法	Probabilistic Methods in Operations Research	English	48	3	Spring	*IE 1071 or 1081
312030030	IE 1083	离散事件模拟	Simulation Modeling	English	48	3	Spring	*IE 1071
			H/SS Elective 4	English	48	3	Spring	
			Technical Elective 3	English	48	3	Spring	
<b>Total</b>					<b>560</b>	<b>33</b>		

SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312074000	IE 1085	院系研讨会及形势与政策 7	Department Seminar 7	Bilingual	16	0	Fall	
312026030	IE 1080	供应链管理	Supply Chain Analysis	English	48	3	Fall	IE 1055 or IE 1082
312099030		毕业设计1	Senior Project 1	English	48	3	Fall	completion of 75% core courses, 21 credits at most per semester in senior year
			H/SS Elective 5	English	48	3	Fall	
			Technical Elective 4	English	48	3	Fall	
312075000	IE 1085	院系研讨会及形势与政策 8	Department Seminar 8	Bilingual	16	0	Spring	
312031040	IE 1090	毕业设计	Senior Project 2	English	64	4	Spring	Senior Project 1
			H/SS Elective 6	English	48	3	Spring	
			Technical Elective 5	English	48	3	Spring	
<b>Total</b>					<b>384</b>	<b>22</b>		

Required Credit : 162/165